

B750VK

API 682 4th Edition Category 2/3
 Seal type A (Rotating)
 Configuration 2CW-CW (Contacting Wet – Contacting Wet)
 Configuration 3CW-FB (Contacting Wet – Face-to-Back)

Product Description

1. API 682 Category 2 and 3, Type A, Arrangement 2 & 3 seal
2. Dual seal in face-to-back configuration
3. Balanced design
4. Independent of direction of rotation
5. Cartridge construction
6. Pumping device available for increased efficiency in circulation
7. Rotary unit with multiple springs
8. Can accommodate reverse pressure

Technical Features

1. Can handle extensive applications in various temperatures and pressures
2. Versatile in design to fit various seal chambers
3. Material of construction available in special metallurgy
4. Special torque transmission design for high performance
5. Operation reliability due to rugged metal torque transmission at the rotating seal face

Typical Industrial Applications

- API 610/ISO 13709 pumps
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Highly volatile hydrocarbons
- LPG plants
- Power plant technology
- Process pumps

Performance Capabilities

Shaft diameter: $d = 20 \dots 110 \text{ mm}$ (0.79" ... 4.33")
 Pressure: $p_1 = \dots 42 \text{ bar}$ (609 PSI)
 Temperature: $t = -40 \text{ }^\circ\text{C} \dots +176 \text{ }^\circ\text{C}$ (+220 °C)
 (-40 °F ... +349 °F (+428 °F))*
 Sliding velocity: $v_g = 23 \text{ m/s}$ (76 ft/s)
 Axial movement:
 $d \leq 40 \text{ mm} \pm 1.0 \text{ mm}$
 $d > 40 \text{ mm} \pm 1.5 \text{ mm}$
 * Engineered up to 260 °C (500 °F) with FFKM (K) secondary seals

Materials

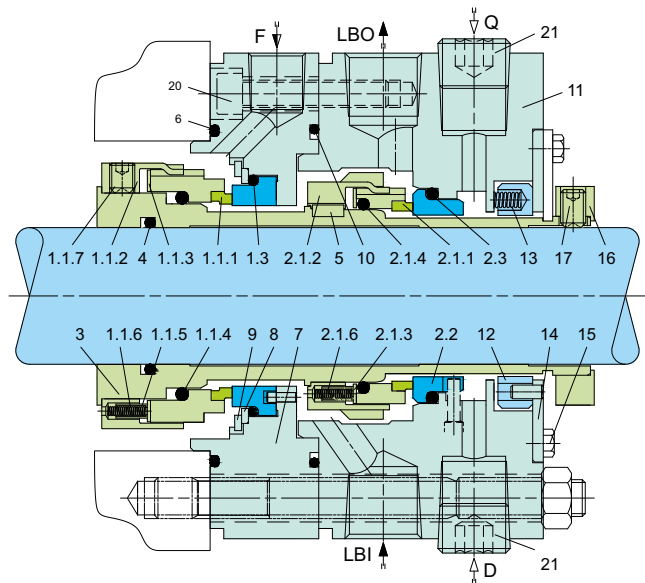
Seal rings: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2)
 Mating rings: Silicon carbide SSiC (Q1), RBSiC (Q2)
 Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K)
 Springs: Hastelloy® C-276 (M5)
 Metal parts: CrNiMo steel 316 (G), Duplex (G1), Hastelloy C-276 (M5)

Recommended piping plans 2CW-CW

Process side:
 01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41
 Between seals: 52, 55
 Atmospheric side: 61, 62, 65A, 65B

Recommended piping plans 3CW-FB

Process side:
 01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41
 Between seals: 53A, 53B, 53C, 54
 Atmospheric side: 61, 62, 65A, 65B



Item	Description
1.1.1, 2.1.1	Seal ring
1.1.2, 2.1.2	Driver
1.1.3, 2.1.3	Thrust ring
1.1.4, 1.3, 2.1.4, 2.3, 4, 6, 10	O-ring
1.1.5, 2.1.5	Spring sleeve
1.1.6, 2.1.6, 13	Spring
1.1.7, 17	Set screw
1.2, 2.2	Mating ring
3	Shaft sleeve
5	Key
7	Intermediate gland
8, 14	Washer
9	Retaining ring
11	Gland
12	Throttle bushing
15, 19	Hexagonal screw
16	Set ring
18	Setting Plate
20	HSH cap screw
21	Head screw plug
F	Flush
LBI	Liquid Buffer/Barrier IN
LBO	Liquid Buffer/Barrier OUT
Q	Quench
D	Drain